

**PERFORMANCE MEASUREMENT SYSTEM \WITH
FLUORESCENT MARKERS FOR GOLF EQUIPMENT**

ABSTRACT

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The present invention is directed to a monitor system that measures flight characteristics of at least one object moving in a predetermined field-of-view using at least one fluorescent marker. The system may include a lighting unit with a light filter, at least one camera unit with a camera filter. The lighting unit directs light in the direction of the object.

10 If there is a light filter the light is filtered prior to reaching the object. The camera unit is pointed toward the object and the camera filter inhibits all wavelengths except those in a certain range. The reflected light from the object is transmitted to the camera through the camera filter. In one embodiment, the system includes a camera filter that is electronically switchable between at least two colors. The present invention further includes methods for

15 monitoring at least one object with at least one marker using filters.